# WBS 6.4
# Liquid Argon Calorimeter System:
# Recent Developments and Next Steps

John Parsons
US ATLAS HL-LHC Level-2 Manager for the LAr Calorimeter System
Columbia University

HL-LHC LAr Weekly Meeting
October 17, 2016

# Management Updates

- As you know, Jon Kotcher (kotcher@bnl.gov) was recently appointed by BNL management as the Project Manager for the US ATLAS HL-LHC project
  - Jon's term started on September 13

- This change did not lead to any changes in the LAr management team (ie. all of us)

- Jon has been setting up the HL-LHC Project Office (PO), bringing in experts with whom he previously worked closely on Phase I
  - The PO will now be headed by Xiaofeng Guo (xguo@bnl.gov), and we will be working closely with her and other PO members as we work toward getting the required Resource Loaded Schedule (RLS) set up in P6

- As Jon and the PO reviewed the status of the project preparations, they decided to modify the WBS structure so that the CAMS (ie. you) are now at L3 (see next slide)
  - The PO has modified the WBS in our existing task lists, and you have received an updated tasklist in Excel from Xiaofeng earlier today (I uploaded it to agenda)
  - We need to start using this new WBS scheme

# WBS Update

- In new WBS structure, CAMs (= Deliverable Managers) are L3 managers, with different institutions contributing to a particular deliverable at L4
  - At L4, have an Institution Contact (IC) for each contributing institution

| Option 2a showing deliverables/items and institutions together | | | | |
|---|---|---|---|---|
| L2 Manager: John Parsons | | CAMs | ICs | |
| **6.4** | **LAr** | | | |
| **6.4.1** | **FE Electronics** | Tim Andeen | | L3 = deliverable |
| 6.4.1.1 | FE Electronics-Columbia | | John Parsons | L4 = item and institution |
| 6.4.1.2 | FE Electronics-UTAustin | | Tim Andeen | |
| 6.4.1.3 | FE Electronics-SMU | | | |
| 6.4.1.3.1 | Serializer ASIC | | Jingbo Ye | |
| 6.4.1.3.2 | VCSEL array driver ASIC | | Jingbo Ye | |
| 6.4.1.3.3 | Optical Transmitter Module (OTx) | | Jingbo Ye | |
| **6.4.2** | **FEB2** | John Parsons | | |
| 6.4.2.1 | Columbia | | John Parsons | |
| **6.4.3** | **BE Electronics** | Andy Haas | | |
| 6.4.3.1 | BE Electronics-SB | | John Hobbs | |
| 6.4.3.2 | BE Electronics-Arizona | | Ken Johns | |
| **6.4.4** | **System Engineering** | Marc-Andre Pleier | | |
| 6.4.4.1 | FEB2 Integration-BNL | | Hucheng Chen | |
| 6.4.4.2 | System Integration-BNL | | Hucheng Chen | |
| **6.4.5** | **PA Shaper** | Hong Ma | | |
| 6.4.5.1 | PA Shaper-BNL | | Hong Ma | |
| 6.4.5.2 | PA Shaper-Penn | | Mitch Newcomer | |

# Reviews and Schedule Update

- Jon has determined that having the RLS ready in time for a Director's Review (DR) in December is not realistic

- Instead, after discussion with US CMS, have decided to hold the DR in March 2017
  - The DOE requires an Independent Cost Review (ICR) of 20 weeks duration, which would start in April
  - This fixes target date for CD-1 to be September 2017
  - This is as late as possible while maintaining NSF PDR target of December 2017

- NSF has recently proposed an intermediate NSF-scope review in Feb. 2017, but Jon is pushing back and arguing to at least delay it until after the DR

- Clearly the coming period is going to be VERY busy, getting the RLS and all other tools in place in time for successful CD-1 and PDR reviews in 2017 !

# Next Steps

- Jon held a meeting last Wed., to which all L2/L3/IC were invited, to discuss next steps

- The agenda page (see https://indico.bnl.gov/conferenceDisplay.py?confId=2443, with passwd 2025) includes a number of items you need to read through carefully (particularly if you were unable to attend the mtg)

- The immediate next step is that each L3 needs to schedule a one-on-one meeting with one of the PO people, to go through your tasklist as implemented in P6

  - For the meetings to be efficient/successful, you need to prepare ahead of time!

  - Email from Xiaofeng to all of us on 10/13/16 included answers to questions about these meetings, so please read through it carefully

  - Particular focus will be on inserting links to tasks in other WBS, to external links (eg. to foreign partners), etc.

  - You are asked to book a 2-3 hour timeslot on the signup sheet

  - If you wish, you can invite your IC's to join you in this meeting, since in the end they will need to "own" the RLS activities at their institution (we can discuss case-by-case how best to approach this issue)

  - If we can coordinate it, I will try to also attend your sessions

# Getting Started

- There will undoubtedly be a learning curve for these one-on-one meetings, which are scheduled to start this week

- I propose that, as a first step, I will schedule my meeting for the FEB2 tasklist
  - It has links to many of the other WBS items, so getting these links in should already be a big step forward

- I can try choose a time when most of you would be available to attend, at least for part of the 3-hour timeslot, so that you can get an idea before your own meeting about how it works
  - I will circulate a doodle with possible times for next week

# Other Items

- For the CD-1 review, we need to produce a Conceptual Design Report (CDR)
  - The CDR would focus on the DOE scope, but have enough information about the overall plans to provide the needed context
  - Eric Torrence has been asked by the mgmt to oversee preparation of the CDR

- For the LAr section, I have asked BNL team of Hong/Marc-Andre/Hucheng to provide text for subsections on the PA/shaper development and System Integration tasks
  - They aim to provide me a first draft by the end of this week

- Once I have that, I will work to integrate this with an introduction and overview that includes some information about the overall scope, how NSF and DOE efforts work together, etc.
  - I would like to have a first draft of the LAr section by early November
  - Once I have it in good enough shape, I will circulate it to you for comments and feedback